

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Applicants: Anuj Bellare, Wolfgang Fitz, Andreas H. Gomoll, Richard D. Scott
and Thomas S. Thornhill

Application No.: 10/734,652 Group: 1714

Filed: December 12, 2003 Examiner: Unknown

Confirmation No.: 8950

For: NANOCOMPOSITE SURGICAL MATERIALS AND METHOD OF
PRODUCING THEM

CERTIFICATE OF MAILING OR TRANSMISSION	
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REQUEST FOR CORRECTED FILING RECEIPT
FOR UTILITY APPLICATION

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Sir:

We hereby request that the following items of information be corrected in the Filing Receipt for the subject application received in this office on March 24, 2004.

The errors and corrections appear below.

Please delete "Wolfgang Pitz" and insert --Wolfgang Fitz--.

Enclosed are copies of the Filing Receipt with changes noted in red and a copy of the first page of the specification.

Pursuant to instructions in the February 29, 2000 O.G., we hereby request that the errors which are identified above be corrected in the captioned application to which this request for correction is directed. It is understood that the Patent Office will issue an automatically-generated, corrected Filing Receipt in this and, if applicable, any other affected applications.

Respectfully submitted,

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May 21, 2004



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APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/734,652	12/12/2003	1714	0.00	1407.1037-009	7	37	8

CONFIRMATION NO. 8950

021005

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FILING RECEIPT



OC000000012152793

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Assignment For Published Patent Application

The Brigham and Women's Hospital, Inc., Boston, MA;

Domestic Priority data as claimed by applicant

This application is a CON of 09/541,374 03/31/2000 PAT 6,689,823
 which claims benefit of 60/127,244 03/31/1999

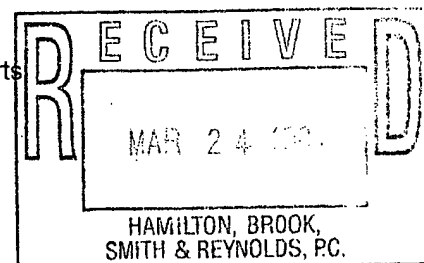
Foreign Applications

If Required, Foreign Filing License Granted: 03/22/2004

Projected Publication Date: To Be Determined - pending completion of Missing Parts

Non-Publication Request: No

Early Publication Request: No



Title

Nanocomposite surgical materials and method of producing them

Preliminary Class

523

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Title 37, Code of Federal Regulations, 5.11 & 5.15**

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-1-



Date: 12/12/03 Express Mail Label No. EL 92815271705

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Attorney's Docket No.: 1407.1037-009

NANOCOMPOSITE SURGICAL MATERIALS AND METHOD OF PRODUCING THEM

RELATED APPLICATIONS

This application is a continuation of U.S. Application No. 09/541,374, filed
5 March 31, 2000, which claims the benefit of U.S. Provisional Application No.
60/127,244, filed March 31, 1999. The entire teachings of the above applications are
incorporated herein by reference.

BACKGROUND OF THE INVENTION

Surgical materials are important synthetic biomaterials that can be implanted in
10 humans or animals and are used extensively in orthopedic surgery and related areas such
as total joint arthroplasty. A number of dental applications also require the use of
surgical materials such as cements.

The most common cement currently employed in cemented total joint
arthroplasty is obtained by the polymerization of poly(methyl methacrylate) with methyl
15 methacrylate monomer. In cemented total joint replacement, the surgical cement, also
referred to as the bone cement, anchors the prosthesis to the contiguous bone. One
concern associated with self-curing acrylic-based bone cements is the fracture of
cements due to defects such as voids and agglomeration of fillers. (Topoleshi LDT. *et al*,
Biomaterials 14(15): 1166-1172 (1993) Microstructural Pathway of Fracture in